REMARKS

Applicants respectfully request that the foregoing amendments be made prior to examination of the present application. The amendments are made to correct multiple dependencies and do not change the scope of the invention.

Respectfully submitted,

Date April // 2002

FOLEY & LARDNER
Washington Harbour
3000 K Street, N.W., Suite 500
Washington, D.C. 20007-5143
Telephone: (202) 672-5407
Facsimile: (202) 672-5399

Michele M. Simkin Attorney for Applicants Registration No. 34,717

By Mirluh M Minlin

MARKED UP VERSION OF AMENDED APPLICATION

Marked up replacement paragraphs:

Page 21, lines 7-19:

E. coli strain BL21 (λDE3, ompT, hsdS_B (r_B-m_B-), gal, dcm) was used as the host for the plasmids described below. Plasmid pKS1 contains a codon-optimised gene for the expression of the Hc fragment of TeNT under the control of the T7 promoter. It was created by PCR amplification (Pfu polymerase, Stratagene, Cambridge UK) of a 1357 bp fragment using pTETtac215 (Makoff et al., 1989) as template and the oligonucleotides 5'GAGCATATGAAAAACCTTGAT (SEQ ID NO: 2) and 5'CGGATCCTTAGTCGTTGGTCCA (SEQ ID NO: 3) which introduce Ndel and BamHI sites at the 5' and 3' ends of the gene respectively. After blunt end ligation of the PCR product into the vector pCRScript (Stratagene) to form plasmid pJC6, the Ndel – BamHI fragment was purified by agarose gel electrophoresis using a Qiaex II gel purification kit (Qiagen, West Sussex, UK), and [sublconed]subcloned into pET28a (Novagen, Cambridge UK) which has previously been digested with Ndel and BamHI (Roche Molecular Biochemicals, East Sussex, UK). DNA manipulations were performed by standard procedures.

Page 22, table 1:

TABLE 1 Mutants of TeNT Hc constructed

Mutant	Oligonucleotides used for site directed mutagenesis
Name	
M5	NF38: 5' to 3' GGTTGCGACTGGTACTTCTAAGGATCCGAATTCG (SEQ ID. NO:4) NF41: 3' to 5' CGAATTCGGATCCTTAGAAGTACCAGTCGCAACC (SEQ ID. NO:5)
T1308A	NP49: 5' to 3' GACTGGTACTTCGTTCCGGCTGATGAAGGTTGGA (SEQ ID. NO:6) NP50: 3' to 5' GGTCCAACCTTCATCAGCCGGAACGAAGTACCAG (SEQ ID. NO:7)
D1309A	NF51: 5' to 3' TGGTACTTCGTTCCGACCGCTGAAGGTTGGACGA (SEQ ID. NO:8) NF52: 3' to 5' CGTTGGTCCAACCTTCAGCGGTCGGAACGAAGTA (SEQ ID. NO:9)
E1310A	NF57: 5' to 3' TACTTCGTTCCGACCQATGCTGGTTGGACGCAACGAC (SEQ ID. NO:10) NF58: 3' to 5' GTCGTTGGTCCAACCAGCATCGGTCGGAACGAAGTA (SEQ ID. NO:11)
M13	NF47: 5' to 3' TTCGTTCCGACCGATGAATAAGGATCCGAATTCG (SEQ ID. NO:12) NF48: 3' to 5' CGAATTCGGATCCTTATTCATCGGTCGGAACGAA (SEQ ID. NO:13)
M28	NF79: 5' to 3' GGTACCCACAACGTGTCAGCGAACCGTGACATCCTG (SEQ ID. NO:14) NF80: 5' to 3' CAGGATGTCACGGTTCGGCTGACCGTTGTGGGTACC (SEQ ID. NO:15)

	Target St. 100
M37	NF81: 5' to 3' CTGGGTCTGGTTGGTACCAACGACCCGAACCGTGAC (SEQ ID. NO:16)
	NF82: 5' to 3' GTCACGGTTCGGGTCGTTGCTACCAACCAGACCGAG (SEQ ID.
	NO:17)
M40	NF79: 5' to 3' GGTACCCACAAGGTCAGCCGAACCGTGACATCCTG (SEQ ID.
	NO:18)
	NF80: 5' to 3' CAGGATGTCACGGTTCGGCTGACCGTTGTGGGTACC (SEQ ID.
	NO:19)
Ī	and
	NF32: 5' to 3' CTTCTAACTGGTACTTCAACTCTCTGAAAGACAAAATCCTGGG (SEQ ID. NO:20)
	NF33: 3' to 5' CCCAGGATTTTGTCTTTCAGAGCGTTGAAGTACCAGTTAGAAG
	(SEQ ID. NO:21)
M58	NF91: 5' to 3' GTTGGTTACCCGAAACTGCAGAACCTGGACAGAATT (SEQ ID.
	NO:22)
	NF92: 3' to 5' AATTCTGTCCAGGTTCTGCAGTTTCGGGTAACAAC (SEQ ID.
	NO:23)
M564	NF32: 5' to 3' CTTCTAACTGGTACTTCAACTCTCTGAAAGACAAAATCCTGGG
	(SEQ ID. NO:24)
	NF33: 3' to 5' CCCAGGATTTTGTCTTTCAGAGCGTTGAAGTACCAGTTAGAAG (SEQ ID. NO:25)
M567	
I IVIDO /	NF97: 5' to 3' CTAACTGGTACTTCAACGCTCTGAAAGAGAAAATCCTGGG (SEQ ID. NO:26)
	NF98: 3' to 5' CCCAGGATTTTGTCTTTCAGAGCGTTGAAGTACCAGTTAG (SEQ ID.
1	NO:27)

Page 36, table 1:

Amino acid sequence of C. tetani neurotoxin (TeNT)

1 61 121 181 241 301 361 421 481 541 601 661 721 781 841 901 961 1021 1081 1141 1201 1261	mpitinnfry ppssliegas syslldkfdt knyfpcrdgf glygmqvssh aiannklsqvt ielgkkfnik nafrnvdgsg knsfseepfq eyksnaasti skvnqgaqgi figalettgv lvkakwlgtv kleekankam itelkkiesk gfnssvityp vsashlegyg dkfnaylank nqyvsidkfr qlkahtdytny synnnehivg knaslglvgt	sdpvnndtii eyydpnylrt nsnsvsfnll gsimqmafcp eiipskqeiy scndpnidid trlsyfsmnh lvskliglck deivsyntkn eibhiddnti lflqwvrdii vllleyipei ntqfqkrsyg ininifmres inkvfstpip daqlvpging tneysiissm wvfititndr ifckalnpke ltnapsytng ypkdgnafnn hngqigndpn	mmeppyckgl dsdkdrflqt eqdpsgattk eyvptfdnvi mqhtypisae sykqiyqqky dpvkipnlld kiipptnire kplnfnysld yqylyaqksp ddftnessqk tlpviaalsi myrsleyqvd srsflvngmi fsysknldcw kaihlvnnes kkhslsigsg lssanlying ieklytsyls klniyyrrly ldxilrvgyn rdiliasnwy	diyykafkit mvklfnrikn samltnliif enitsltigk elftfggdda qfdkdsnggy dtiyndtegf nlynrtaslt kiivdynlqs ttlqritmtn ttidkisdvs aesstqkeki aikkiidyey neakkqllef vdneedidvi sevivhkamd wsvslkgnnl vlmgsaeitg itflrdfwgn nglkfiikry apgiplykkm fnhlkdkiig	driwivpery nvagealldk gpgpvlnkne skyfqdpall nlisidiknd ivnedkfqil nieskdlkse dlggelciki kitlpndrtt svddalinst tivpyigpal iktidnflek kiysgpdkeq dtqsknilmq lkkstilnid ieyndmfnnf iwtlkdsage lgairednni plrydteyyl tpnneidsfv eavklrdikt cdwyfvptde	efgtkpedfn iinaipylgn vrgivlrvdn lmhelihvlh lyektlndyk ynsimygfte ykgqnmrvnt knedltfiae pvtkgipyap kiysyfpsvi nivkqgyegn ryekwievyk iadeinnlkn yikanskfig inndiisdis tvsfwlrvpk vrqitfrdlp tlkldrcnnn ipvassskdv ksgdfiklyv ysvqlklydd gwtnd (SEQ ID NO: 1)
--	---	---	--	---	---	---

Rec'd PCT/PTO 11 APR 2007

#4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket No: 078883-0143

In re patent application of

FAIRWEATHER, NEIL FRASER et al.

Serial No. 10/018,997

Filed: December 26, 2001

For: TETANUS TOXIN POLYPEPTIDES

STATEMENT TO SUPPORT FILING AND SUBMISSION IN ACCORDANCE WITH 37 C.F.R. §§ 1.821-1.825

Assistant Commissioner for Patents Washington, D.C. 20231
Box SEQUENCE

Sir:

In connection with a Sequence Listing submitted concurrently herewith, the undersigned hereby states that:

- 1. the submission, filed herewith in accordance with 37 $\text{C.F.R.} \ \S \ 1.821(g)$, does not include new matter;
- 2. the content of the attached paper copy and the attached computer readable copy of the Sequence Listing, submitted in accordance with 37 C.F.R. § 1.821(c) and (e), respectively, are the same; and
- 3. all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United

Serial No. 10/018,997

States Code and that such willful false statements may jeopardize the validity of the application or any patent resulting therefrom.

Respectfully submitted,

Date

HARBOR CONSULTING

Intellectual Property Services
1500A Lafayette Road
Suite 262
Portsmouth, N.H.
800-318-3021

2